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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/621,253	07/14/2003	Sudhakar Kale	884.142US2	1288

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EXAMINER	
TO, TUYEN P	

ART UNIT	PAPER NUMBER
2825	

DATE MAILED: 07/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/621,253	KALE ET AL.	
	Examiner	Art Unit	
	Tuyen To	2825	TT

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *03* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *26 June 2006*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-26* is/are pending in the application.

4a) Of the above claim(s) *1-7,11-22,25 and 26* is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *8-10,23 and 24* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☒ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *14 July 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date *7/14/2003*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

This is a response to the communication filed on 06/26/2006. Claims 1-26 are pending.

Applicants' election without traverse of Group II (Claims 8-10 and 23-24) in the reply filed on 06/26/2006 is acknowledged. Claims 1-7, 11-22, and 25-26 have been withdrawn.

Claim Objections

1. Claims 8 and 23 are objected to because of the recited limitation "the control signals" in claims 8 and 23 lacks of antecedent basis. Appropriate correction is required.

Specification

2. The abstract of the disclosure is objected to because it includes more than 150 words. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 8-10 and 23-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Odawara et al., "Partition and Placement Technique for CMOS Gate Arrays", IEEE Transactions on Computer-Aid Design, Vol. CAD-6, No.3, May 1987, pages 355-363.

(Claim 8 and similarly recited claim 23)

A computerized method (claim 8)/an article (claim 23) for generating a set of vectors ("location macros", section II) for a logic design through computer-automated operations, the method comprising:

identifying logic for generating at least one control signal and excluding the logic from the set of vectors (Section III A, Fig. 5 (a));

identifying at least one instance of a first template to group as a first vector in the set of vectors by using databus identifiers and the control signals (Fig. 5(a), see *b) Bus-type location macro (BTLM)* and *b) Bus-type location macro extraction* in Section III A, page 357); and

identifying at least one instance of a second template to group as a second vector in the set of vectors by using circuit connectivity and a previously formed vector (Fig. 4, see *a) Vertical-type location macro (VTLM)* and *a) VTML extraction* in Section III A).

(Claim 9 and similarly recited claim 24)

The computerized method/an article of claim 8 and 23 repectively, wherein identifying at least one instance of the second template using circuit connectivity and a previously formed vector is performed after all possible vectors are identified using the databus identifiers and the control signals (Section III A).

(Claim 10)

The computerized method of claim 8 wherein the logic design is for a datapath circuit (Figs 4 and 5, Section III A).

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuyen To whose telephone number is (571) 272-8319. The examiner can normally be reached on 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on (571) 272- 7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tuyen To

Patent Examiner

AU 2825

VUTHE SIEK
PRIMARY EXAMINER